



results of BLAST

BLASTP 2.2.9 [May-01-2004]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1084305495-12990-214576012592.BLASTQ3

Query=

(54 letters) *Residues 138-191 Seq ID 10:206*

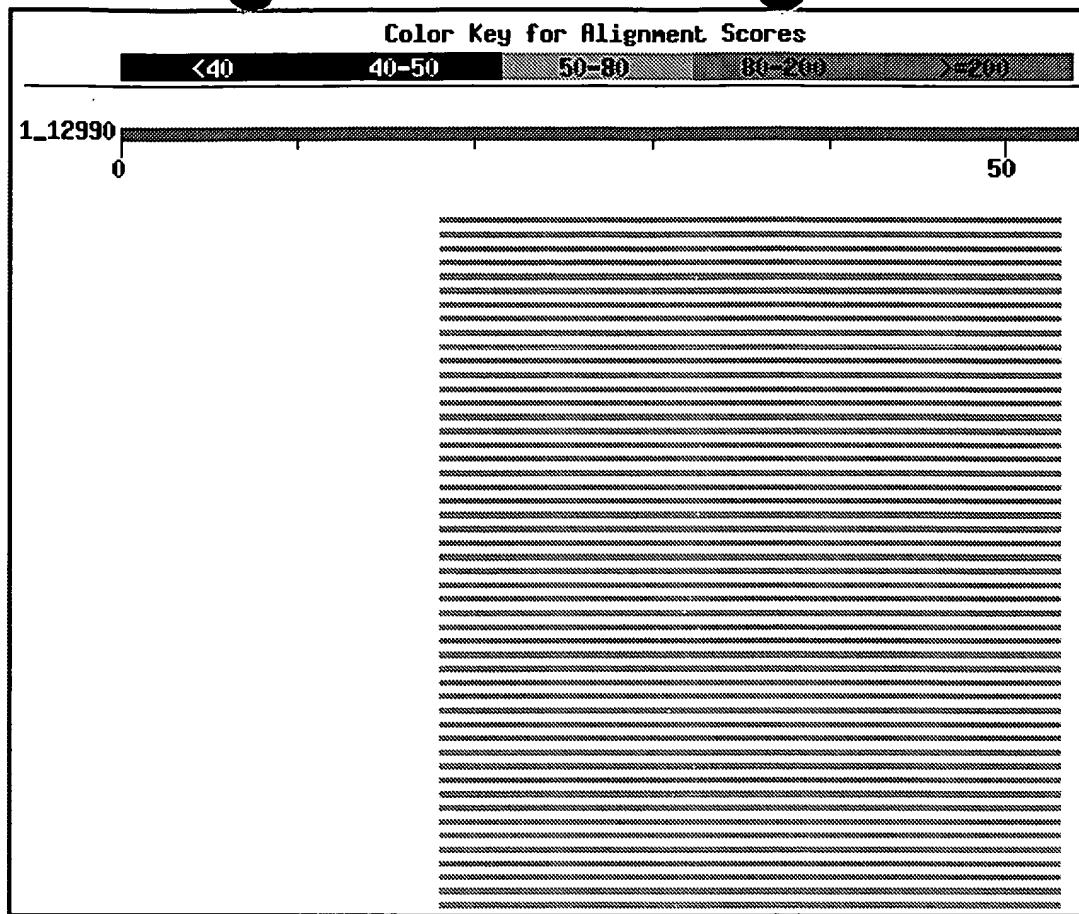
Database: All non-redundant GenBank CDS translations+PDB+SwissProt+PIR+PRF excluding environmental samples
1,798,171 sequences; 593,787,773 total letters

If you have any problems or questions with the results of this search please refer to the [BLAST FAQs](#)

[Taxonomy reports](#)

Distribution of 100 Blast Hits on the Query Sequence

Mouse-over to show define and scores. Click to show alignments



Sequences producing significant alignments:

gi 532381 gb AAA21037.1	polyprotein	77	1e-13
gi 1246371 dbj BAA09974.1	polyprotein [Hepatitis C virus]	77	1e-13
gi 1724052 gb AAB40071.1	core protein [Hepatitis C virus]	76	2e-13
gi 1009261 dbj BAA07091.1	core, env and part of E2/NS1 [He...]	76	2e-13
gi 532455 gb AAA21074.1	polyprotein	76	2e-13
gi 1009257 dbj BAA07089.1	core, env, and part of E2/NS1 [He...]	75	3e-13
gi 974347 gb AAB40038.1	core protein [Hepatitis C virus ty...]	75	3e-13
gi 2326455 emb CAA72801.1	polyprotein [Hepatitis C virus t...]	75	3e-13
gi 1765870 dbj BAA13616.1	core, env, and part of E2/NS1 [He...]	75	4e-13
gi 3550763 dbj BAA32666.1	polyprotein [Hepatitis C virus]	75	4e-13
gi 600265 dbj BAA13617.1	core, env and part of E2/NS1 [Hep...]	75	4e-13
gi 1765879 dbj BAA13621.1	core, env and part of E2/NS1 [He...]	75	4e-13
gi 1009271 dbj BAA07271.1	core, env and part of E2/NS1 [He...]	75	4e-13
gi 21670895 dbj BAC02457.1	polyprotein [Hepatitis C virus ...]	75	4e-13
gi 1765868 dbj BAA13615.1	core, env and part of E2/NS1 [He...]	75	4e-13
gi 14161281 gb AAK54688.1	polyprotein [Hepatitis C virus]	75	4e-13
gi 3550765 dbj BAA32667.1	polyprotein [Hepatitis C virus]	75	5e-13
gi 1009263 dbj BAA07092.1	core, env and part of E2/NS1 [He...]	75	5e-13
gi 1066620 gb AAC42194.1	core protein	75	5e-13
gi 3550761 dbj BAA32665.1	polyprotein [Hepatitis C virus]	75	5e-13
gi 1009259 dbj BAA07090.1	core, env and part of E2/NS1 [He...]	75	5e-13
gi 1066604 gb AAC42186.1	core protein	75	5e-13
gi 601937 dbj BAA06739.1	core, env and part of E2/NS1 [Hep...]	75	5e-13

gi 1765889 dbj BAA13626.1	core, env and part of E2/NS1 [Hepatitis C virus]	74	6e-13
gi 1765883 dbj BAA13623.1	core, env and part of E2/NS1 [Hepatitis C virus]	74	6e-13
gi 532457 gb AAA21075.1	polyprotein	74	6e-13
gi 3550759 dbj BAA32664.1	polyprotein [Hepatitis C virus]	74	7e-13
gi 532459 gb AAA21076.1	polyprotein	74	7e-13
gi 532465 gb AAA21079.1	polyprotein	74	7e-13
gi 1246377 dbj BAA09976.1	polyprotein [Hepatitis C virus]	74	8e-13
gi 1480851 gb AAB88630.1	polyprotein	74	8e-13
gi 532383 gb AAA21038.1	polyprotein	74	9e-13
gi 532463 gb AAA21078.1	polyprotein	74	1e-12
gi 21670857 dbj BAC02438.1	polyprotein [Hepatitis C virus]	74	1e-12
gi 1765866 dbj BAA13614.1	core, env and part of E2/NS1 [Hepatitis C virus]	74	1e-12
gi 3283982 gb AAC25417.1	core protein [Hepatitis C virus]	74	1e-12
gi 1765875 dbj BAA13619.1	core, env and part of E2/NS1 [Hepatitis C virus]	74	1e-12
gi 1765877 dbj BAA13620.1	core, env and part of E2/NS1 [Hepatitis C virus]	74	1e-12
gi 18148524 dbj BAB83298.1	core protein [Hepatitis C virus]	74	1e-12
gi 21670875 dbj BAC02447.1	polyprotein [Hepatitis C virus]	74	1e-12
gi 1009265 dbj BAA07093.1	core, env and part of E2/NS1 [Hepatitis C virus]	74	1e-12
gi 1009267 dbj BAA07094.1	core, env, and part of E2/NS1 [Hepatitis C virus]	73	1e-12
gi 18148498 dbj BAB83285.1	core protein [Hepatitis C virus]	73	1e-12
gi 18148512 dbj BAB83292.1	core protein [Hepatitis C virus]	73	1e-12
gi 21670879 dbj BAC02449.1	polyprotein [Hepatitis C virus]	73	1e-12
gi 18148514 dbj BAB83293.1	core protein [Hepatitis C virus]	73	1e-12
gi 18148506 dbj BAB83289.1	core protein [Hepatitis C virus]	73	1e-12
gi 18148725 dbj BAB83394.1	core protein [Hepatitis C virus]	73	1e-12
gi 18148534 dbj BAB83303.1	core protein [Hepatitis C virus]	73	1e-12
gi 1480853 gb AAB88631.1	polyprotein	73	1e-12
gi 2580421 dbj BAA23132.1	polyprotein [Hepatitis C virus]	73	2e-12
gi 1009255 dbj BAA07088.1	polyprotein [Hepatitis C virus]	73	2e-12
gi 532445 gb AAA21069.1	polyprotein	73	2e-12
gi 1480855 gb AAB88632.1	polyprotein	73	2e-12
gi 974349 gb AAB40039.1	core protein [Hepatitis C virus type 1b]	73	2e-12
gi 2252490 emb CAA72338.1	HCV polyprotein [Hepatitis C virus]	73	2e-12
gi 1480857 gb AAB88633.1	polyprotein	73	2e-12
gi 21670893 dbj BAC02456.1	polyprotein [Hepatitis C virus]	73	2e-12
gi 37961928 gb AAP69953.1	polyprotein [Hepatitis C virus]	73	2e-12
gi 27531310 dbj BAC54267.1	poly protein [Hepatitis C virus]	72	2e-12
gi 532461 gb AAA21077.1	polyprotein	72	2e-12
gi 1765891 dbj BAA13627.1	core, env and part of E2/NS1 [Hepatitis C virus]	72	2e-12
gi 9864799 gb AAB32183.2	putative core protein [Hepatitis C virus]	72	2e-12
gi 23328866 gb AAC42195.2	core protein [Hepatitis C virus]	72	2e-12
gi 1183031 dbj BAA09891.1	polyprotein [Hepatitis C virus]	72	2e-12
gi 913996 gb AAB34375.1	polyprotein [Hepatitis C virus]	72	3e-12
gi 42411775 gb AAS15412.1	core protein [Hepatitis C virus]	72	3e-12
gi 532385 gb AAA21039.1	polyprotein >gi 42411745 gb AAS153...	72	3e-12
gi 296898 emb CAA50610.1	nucleocapsid protein [synthetic construct]	72	3e-12
gi 42411777 gb AAS15413.1	core protein [Hepatitis C virus]	72	3e-12
gi 7274365 gb AAF44740.1	core structural protein [Hepatitis C virus]	72	3e-12
gi 42411565 gb AAS15307.1	core protein [Hepatitis C virus]	72	3e-12
gi 13958007 gb AAK50756.1	core protein [Hepatitis C virus]	72	3e-12
gi 1944376 dbj BAA19625.1	unnamed protein product [Hepatitis C virus]	72	3e-12
gi 42411147 gb AAS15098.1	core protein [Hepatitis C virus]	72	3e-12
gi 27544244 dbj BAC54896.1	polyprotein [Hepatitis C virus]	72	3e-12
gi 42411769 gb AAS15409.1	core protein [Hepatitis C virus]	72	3e-12
gi 1066588 gb AAC42178.1	core protein	72	3e-12
gi 13957999 gb AAK50752.1	core protein [Hepatitis C virus]	72	3e-12
gi 974345 gb AAB40037.1	core protein [Hepatitis C virus type 1b]	72	3e-12
gi 130458 sp P26663 POLG_HCVBK	Genome polyprotein [Contains hepatitis C virus genome]	72	3e-12
gi 532395 gb AAA21044.1	polyprotein	72	3e-12
gi 7650242 gb AAF65952.1	polyprotein [Hepatitis C virus]	72	3e-12

<u>gi 27531322 dbj BAC54273.1 </u>	poly protein [Hepatitis C virus...]	<u>72</u>	<u>3e-12</u>
<u>gi 7650248 gb AAF65955.1 </u>	polyprotein [Hepatitis C virus]	<u>72</u>	<u>3e-12</u>
<u>gi 5918963 gb AAD56197.1 </u>	polyprotein [Hepatitis C virus]	<u>72</u>	<u>3e-12</u>
<u>gi 5918961 gb AAD56196.1 </u>	polyprotein [Hepatitis C virus]	<u>72</u>	<u>3e-12</u>
<u>gi 7650224 gb AAF65943.1 </u>	polyprotein [Hepatitis C virus]	<u>72</u>	<u>3e-12</u>
<u>gi 320211 pir JH0711</u>	genome polyprotein - hepatitis C viru...	<u>72</u>	<u>3e-12</u>
<u>gi 7650256 gb AAF65959.1 </u>	polyprotein [Hepatitis C virus]	<u>72</u>	<u>4e-12</u>
<u>gi 42411919 gb AAS15484.1 </u>	core protein [Hepatitis C virus]	<u>72</u>	<u>4e-12</u>
<u>gi 21670865 dbj BAC02442.1 </u>	polyprotein [Hepatitis C virus ...]	<u>72</u>	<u>4e-12</u>
<u>gi 794209 gb AAA65812.1 </u>	precursor protein	<u>72</u>	<u>4e-12</u>
<u>gi 1765887 dbj BAA13625.1 </u>	core, env and part of E2/NS1 [He...	<u>72</u>	<u>4e-12</u>
<u>gi 5918939 gb AAD56185.1 </u>	polyprotein [Hepatitis C virus]	<u>72</u>	<u>4e-12</u>
<u>gi 5918937 gb AAD56184.1 </u>	polyprotein [Hepatitis C virus]	<u>72</u>	<u>4e-12</u>
<u>gi 42411423 gb AAS15236.1 </u>	core protein [Hepatitis C virus]	<u>72</u>	<u>4e-12</u>
<u>gi 42411673 gb AAS15361.1 </u>	core protein [Hepatitis C virus]...	<u>72</u>	<u>4e-12</u>
<u>gi 1009269 dbj BAA07095.1 </u>	core, env and part of E2/NS1 [He...	<u>72</u>	<u>4e-12</u>
<u>gi 1765885 dbj BAA13624.1 </u>	core, env and part of E2/NS1 [He...	<u>72</u>	<u>4e-12</u>

Alignments

>gi|532381|gb|AAA21037.1| polyprotein
Length = 191

Score = 76.6 bits (187), Expect = 1e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1246371|dbj|BAA09974.1| polyprotein [Hepatitis C virus]
Length = 191

Score = 76.6 bits (187), Expect = 1e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1724052|gb|AAB40071.1| core protein [Hepatitis C virus]
Length = 191

Score = 75.9 bits (185), Expect = 2e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1009261|dbj|BAA07091.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 75.9 bits (185), Expect = 2e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|532455|gb|AAA21074.1| polyprotein
Length = 191

Score = 75.9 bits (185), Expect = 2e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1009257|dbj|BAA07089.1| core, env, and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 75.5 bits (184), Expect = 3e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|974347|gb|AAB40038.1| core protein [Hepatitis C virus type 6]
Length = 191

Score = 75.5 bits (184), Expect = 3e-13
Identities = 35/36 (97%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIFLLAL SCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALFSCLTPASA 191

>gi|2326455|emb|CAA72801.1| polyprotein [Hepatitis C virus type 6a]
Length = 3018

Score = 75.5 bits (184), Expect = 3e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA

Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1765870|dbj|BAA13616.1| core, env, and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 75.1 bits (183), Expect = 4e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAI+EDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|3550763|dbj|BAA32666.1| polyprotein [Hepatitis C virus]
Length = 3016

Score = 75.1 bits (183), Expect = 4e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|600265|dbj|BAA13617.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 75.1 bits (183), Expect = 4e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1765879|dbj|BAA13621.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 75.1 bits (183), Expect = 4e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1009271|dbj|BAA07271.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 75.1 bits (183), Expect = 4e-13
Identities = 35/36 (97%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R IEDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|21670895|dbj|BAC02457.1| polyprotein [Hepatitis C virus type 1b]
Length = 191

Score = 75.1 bits (183), Expect = 4e-13
Identities = 34/36 (94%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1765868|dbj|BAA13615.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 74.7 bits (182), Expect = 4e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|14161281|gb|AAK54688.1| polyprotein [Hepatitis C virus]
Length = 195

Score = 74.7 bits (182), Expect = 4e-13
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLT PASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|3550765|dbj|BAA32667.1| polyprotein [Hepatitis C virus]
Length = 3015

Score = 74.7 bits (182), Expect = 5e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1009263|dbj|BAA07092.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 74.7 bits (182), Expect = 5e-13

Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1066620|gb|AAC42194.1| core protein
Length = 319

Score = 74.7 bits (182), Expect = 5e-13
Identities = 36/36 (100%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|3550761|dbj|BAA32665.1| polyprotein [Hepatitis C virus]
Length = 3013

Score = 74.7 bits (182), Expect = 5e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1009259|dbj|BAA07090.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 74.7 bits (182), Expect = 5e-13
Identities = 35/36 (97%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIFLLAL SCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFLLALFSCLTPASA 191

>gi|1066604|gb|AAC42186.1| core protein
Length = 319

Score = 74.7 bits (182), Expect = 5e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|601937|dbj|BAA06739.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 74.7 bits (182), Expect = 5e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1765889|dbj|BAA13626.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 74.3 bits (181), Expect = 6e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1765883|dbj|BAA13623.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 74.3 bits (181), Expect = 6e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|532457|gb|AAA21075.1| polyprotein
Length = 191

Score = 74.3 bits (181), Expect = 6e-13
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|3550759|dbj|BAA32664.1| polyprotein [Hepatitis C virus]
Length = 3019

Score = 74.3 bits (181), Expect = 7e-13
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDGINYATGNLPGCSFSIF+LALLSCLTPASA
Sbjct: 156 RAIEDGINYATGNLPGCSFSIFILALLSCLTPASA 191

>gi|532459|gb|AAA21076.1| polyprotein
Length = 191

Score = 74.3 bits (181), Expect = 7e-13
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDGINYATGNLPGCSFSIFLLAL SCLTPASA
Sbjct: 156 RALEDGINYATGNLPGCSFSIFLLALFSCLTTPASA 191

>gi|532465|gb|AAA21079.1| polyprotein
Length = 191

Score = 73.9 bits (180), Expect = 7e-13
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLT PASA
Sbjct: 156 RAVEDGINYATGNLPGCSFSIFLLALLSCLTVPASA 191

>gi|1246377|dbj|BAA09976.1| polyprotein [Hepatitis C virus]
Length = 191

Score = 73.9 bits (180), Expect = 8e-13
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDGINYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVVEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1480851|gb|AAB88630.1| polyprotein
Length = 191

Score = 73.9 bits (180), Expect = 8e-13
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|532383|gb|AAA21038.1| polyprotein
Length = 191

Score = 73.9 bits (180), Expect = 9e-13
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|532463|gb|AAA21078.1| polyprotein
Length = 191

Score = 73.6 bits (179), Expect = 1e-12
Identities = 34/36 (94%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RA+EDGINYATGNLPGCSFSIFLLALLSCLT PASA
Sbjct: 156 RALEDGINYATGNLPGCSFSIFLLALLSCLTVPASA 191

>gi|21670857|dbj|BAC02438.1| polyprotein [Hepatitis C virus type 1b]
Length = 191

Score = 73.6 bits (179), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1765866|dbj|BAA13614.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 73.6 bits (179), Expect = 1e-12
Identities = 35/36 (97%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|3283982|gb|AAC25417.1| core protein [Hepatitis C virus]
Length = 191

Score = 73.6 bits (179), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1765875|dbj|BAA13619.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 73.6 bits (179), Expect = 1e-12
Identities = 35/36 (97%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R IEDGINYATGNLPGCSFSIFLLALLSCLTPASA

Sbjct: 156 RVIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1765877|dbj|BAA13620.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 73.6 bits (179), Expect = 1e-12
Identities = 35/36 (97%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54

R IEDGINYATGNLPGCSFSIFLLALLSCLTPASA

Sbjct: 156 RVIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|18148524|dbj|BAB83298.1| core protein [Hepatitis C virus]
Length = 191

Score = 73.6 bits (179), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54

R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA

Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|21670875|dbj|BAC02447.1| polyprotein [Hepatitis C virus type 1b]
Length = 191

Score = 73.6 bits (179), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54

R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA

Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1009265|dbj|BAA07093.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 73.6 bits (179), Expect = 1e-12
Identities = 34/36 (94%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54

RAIEDG+NYATGNLPGCSFSIF+LALLSCLTPASA

Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFILALLSCLTPASA 191

>gi|1009267|dbj|BAA07094.1| core, env, and part of E2/NS1 [Hepatitis C virus]
Length = 415

Score = 73.2 bits (178), Expect = 1e-12
Identities = 34/36 (94%), Positives = 36/36 (100%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
RAIEDG+NYATGNLPGCSFSIF+LALLSCLTPASA
Sbjct: 156 RAIEDGVNYATGNLPGCSFSIFILALLSCLTPASA 191

□ >gi|18148498|dbj|BAB83285.1| core protein [Hepatitis C virus]
gi|18148502|dbj|BAB83287.1| core protein [Hepatitis C virus]
Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

□ >gi|18148512|dbj|BAB83292.1| core protein [Hepatitis C virus]
Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

□ >gi|21670879|dbj|BAC02449.1| polyprotein [Hepatitis C virus type 1b]
Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

□ >gi|18148514|dbj|BAB83293.1| core protein [Hepatitis C virus]
Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

□ >gi|18148506|dbj|BAB83289.1| core protein [Hepatitis C virus]
gi|18148508|dbj|BAB83290.1| core protein [Hepatitis C virus]
gi|18148516|dbj|BAB83294.1| core protein [Hepatitis C virus]

gi|18148518|dbj|BAB83295.1| core protein [Hepatitis C virus]
gi|18148520|dbj|BAB83296.1| core protein [Hepatitis C virus]
gi|18148522|dbj|BAB83297.1| core protein [Hepatitis C virus]
gi|18148526|dbj|BAB83299.1| core protein [Hepatitis C virus]
gi|18148528|dbj|BAB83300.1| core protein [Hepatitis C virus]
gi|18148530|dbj|BAB83301.1| core protein [Hepatitis C virus]
gi|18148532|dbj|BAB83302.1| core protein [Hepatitis C virus]
gi|18148536|dbj|BAB83304.1| core protein [Hepatitis C virus]
gi|18148618|dbj|BAB83345.1| core protein [Hepatitis C virus]
gi|18148721|dbj|BAB83392.1| core protein [Hepatitis C virus]
gi|18148727|dbj|BAB83395.1| core protein [Hepatitis C virus]

Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|18148725|dbj|BAB83394.1| core protein [Hepatitis C virus]
Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|18148534|dbj|BAB83303.1| core protein [Hepatitis C virus]
Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

>gi|1480853|gb|AAB88631.1| polyprotein
Length = 191

Score = 73.2 bits (178), Expect = 1e-12
Identities = 33/36 (91%), Positives = 35/36 (97%)

Query: 19 RAIEDGINYATGNLPGCSFSIFLLALLSCLTPASA 54
R +EDG+NYATGNLPGCSFSIFLLALLSCLTPASA
Sbjct: 156 RVLEDGVNYATGNLPGCSFSIFLLALLSCLTPASA 191

Get selected sequences

Select all

Deselect all

Database: All non-redundant GenBank CDS
translations+PDB+SwissProt+PIR+PRF excluding environmental samples
Posted date: May 11, 2004 12:59 AM
Number of letters in database: 593,787,773
Number of sequences in database: 1,798,171

Lambda K H
0.323 0.138 0.415

Gapped

Lambda K H
0.267 0.0410 0.140

Matrix: BLOSUM62

Gap Penalties: Existence: 11, Extension: 1
Number of Hits to DB: 11,208,408
Number of Sequences: 1798171
Number of extensions: 208187
Number of successful extensions: 723
Number of sequences better than 10.0: 234
Number of HSP's better than 10.0 without gapping: 234
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 488
Number of HSP's gapped (non-prelim): 235
length of query: 54
length of database: 593,787,773
effective HSP length: 27
effective length of query: 27
effective length of database: 545,237,156
effective search space: 14721403212
effective search space used: 14721403212
T: 11
A: 40
X1: 16 (7.5 bits)
X2: 38 (14.6 bits)
X3: 64 (24.7 bits)
S1: 41 (22.0 bits)
S2: 68 (30.8 bits)